- 8. The method of claim 7 further comprising the step of implementing a system of credit allocation to control the maximum number of bytes of data transmitted.
- 9. The method of claim 8 wherein said step of implementing is carried out to optimize performance of said modem.
- 10. The method of claim 5 further comprising the steps of providing a memory space in said modem and allocating a portion of said memory space to each of said logical channels.
- 11. The method of claim 10 further comprising the step of tracking the memory allocated to each of said logical channels with a software credit counter.
- 12. The method of claim 11 further comprising the step of swapping memory allocated to each of said logical channels responsive to said data block request message.
- 13. The method of claim 11 further comprising the step of suspending data transfer if the memory allocated to a logical channel is insufficient to accommodate a requested data block.
 - 14. The method of claim 4 further comprising transmitting a data transfer message.
- 15. The method of claim 14 wherein said step of transmitting a data transfer message further comprising transmitting information indicating the size of the data block transferred.
- 16. The modem of claim 1 further comprising an MCU coupled to said physical channel.
- 17. The modem of claim 16 wherein said MCU comprises a mailbox memory for storing said command information.